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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-09-18-06** **Date: 20-09-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.
Address	:	Shettyhalli Sub Division, BBMP, Banglore.
Project Name	:	Establishing of R.O Plant near Mutthuraya Swamy Temple Prashanth Nagar in ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.K Shankar Reddy, #03, 1st Cross, Eranna Palya, Ramachandrappa Layout, Nagavara, Bangalore-560 045.
Customer's Reference	:	EE/DD/WO/145/2015-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-17
Sample ID No	:	2017-09-18-06/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-09-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	–
2	Finess by Air permeablity method (m^2/kg, Min)	297.3	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-09-18-06** **Date: 17-10-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.
Address	:	Shettyhalli Sub Division, BBMP, Banglore.
Project Name	:	Establishing of R.O Plant near Mutthuraya Swamy Temple Prashanth Nagar in ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.K Shankar Reddy, #03, 1st Cross, Eranna Palya, Ramachandrappa Layout, Nagavara, Bangalore-560 045.
Customer's Reference	:	EE/DD/WO/145/2015-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-17
Sample ID No	:	2017-09-18-06/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	19-09-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT ON COARSE AGGREGATES

CP/TF/01

Lab ID	:	**CP-2017-09-18-06** **Date: 21-09-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.
Address	:	Shettyhalli Sub Division, BBMP, Banglore.
Project Name	:	Establishing of R.O Plant near Mutthuraya Swamy Temple Prashanth Nagar in ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.K Shankar Reddy, #03, 1st Cross, Eranna Palya, Ramachandrappa Layout, Nagavara, Bangalore-560 045.
Customer's Reference	:	EE/DD/WO/145/2015-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-09-17
Sample ID No	:	2017-09-18-06/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-09-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	5049	5263	35.1	64.9	30-70
4	10 mm	7132	12395	82.6	17.4	10-35
5	4.75 mm	2121	14516	96.8	3.2	0-5
6	Pan	484	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

CP/TF/01

Lab ID :

Sample ID No : CP-2017-09-18-06

: 2017-09-18-06/02(a)

Date: 21-09-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.39	–
5	Bulk Density(Compacted) (Kg/l)	1.46	–
6	Water Absorption(%)	0.22	–

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Date: 21-09-17

Lab ID	:	**CP-2017-09-18-06**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.
Address	:	Shettyhalli Sub Division, BBMP, Banglore.
Project Name	:	Establishing of R.O Plant near Mutthuraya Swamy Temple Prashanth Nagar in ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.K Shankar Reddy, #03, 1st Cross, Eranna Palya, Ramachandrappa Layout, Nagavara, Bangalore-560 045.
Customer Reference	:	EE/DD/WO/145/2015-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-17
Sample ID No	:	2017-09-18-06/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-09-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	195	195	3.9	96.1	90-100
3	10 mm	2714	2909	58.2	41.8	25-55
4	4.75 mm	1988	4897	97.9	2.1	0-10
5	Pan	103	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-09-18-06 **Date: 21-09-17**

Sample ID No : 2017-09-18-06/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.57	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Authorized Signature
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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

CP/TF/01

Lab ID	:	CP-2017-09-18-06
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Banglore.
Address	:	Shettyhalli Sub Division, BBMP, Banglore.
Project Name	:	Establishing of R.O Plant near Mutthuraya Swamy Temple Prashanth Nagar in ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.K Shankar Reddy, #03, 1st Cross, Eranna Palya, Ramachandrappa Layout, Nagavara, Bangalore-560 045.
Customer's Reference	:	EE/DD/WO/145/2015-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-17
Sample ID No	:	2017-09-18-06/05
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	18-09-17

Date: 21-09-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	200	203	16281	32.160	1975.4	1994.6	Not less than 1800Kg/m^3
2	403	202	201	16363	33.100	2022.9		
3	402	201	203	16403	32.570	1985.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.660	32.450	6.81	6.49	Shall not be more than 10% by mass
2	35.170	33.120	6.19		
3	35.270	33.130	6.46		

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3. In case of any discrepancy please inform the Competent Authority.

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